2.3.2.5 M992 Ammo Carrier. (See Figure 2-10) See Figure 1-2 for Independent Target System (ITS) component.

2.3.2.5.1 Detector Array.

WARNING

Never touch the vehicle exhaust equipment when installing or removing MILES 2000 equipment. The exhaust can be very hot and cause severe burns.

CAUTION

Do not let MILES 2000 cables touch the vehicle exhaust or heating equipment. Heat can cause damage to cables and/or malfunction of the equipment.

ITS vehicle configurations are varied, so there is no specific way to install the Detector Array on a vehicle. When installing the Detector Array, follow the guidelines below:

a. Remove Detector Array from the transit case, and inspect cable segments and detectors for damage.

b. Wipe all detectors clean and inspect connector for dirt and/or damage.

c. Replace and report damaged equipment, as required.

d. When routing array segments, whenever possible, there should be detectors installed on the right and left sides as well as on the front and rear. This is an ideal layout that should only be used if placement can be accomplished without interfering with normal vehicle operations or presenting a safety hazard. In some cases, the cabling may not be long enough to put detectors on all four sides.

e. Secure all array segments with fastener tape or fastener tape tie-wraps at frequent intervals. Extra cable between detectors should be rolled and secured to the vehicle.

2.3.2.5.2 Kill Status Indicator (KSI). See Figure 1-2 for KSI mounting adapters/plates.

a. Remove the KSI and adapter from the transit case, and inspect the KSI for damage.

b. Inspect strobe assembly of the KSI for cracks. Inspect connector for dirt and/or damage.

c. Replace and report damaged equipment, as required.

d. Apply primer and fastener tape to the bottom of the adapter, and to the bottom of the KSI, if needed. (Refer to paragraph 2.3.1.1 for fastener tape application.)

e. Apply primer and fastener tape to the top of the vehicle.

NOTE

For the following step, make sure that the KSI and the mast assembly are lined up as described before placing them together, as the fastener tape will make it difficult to separate the units to realign them.

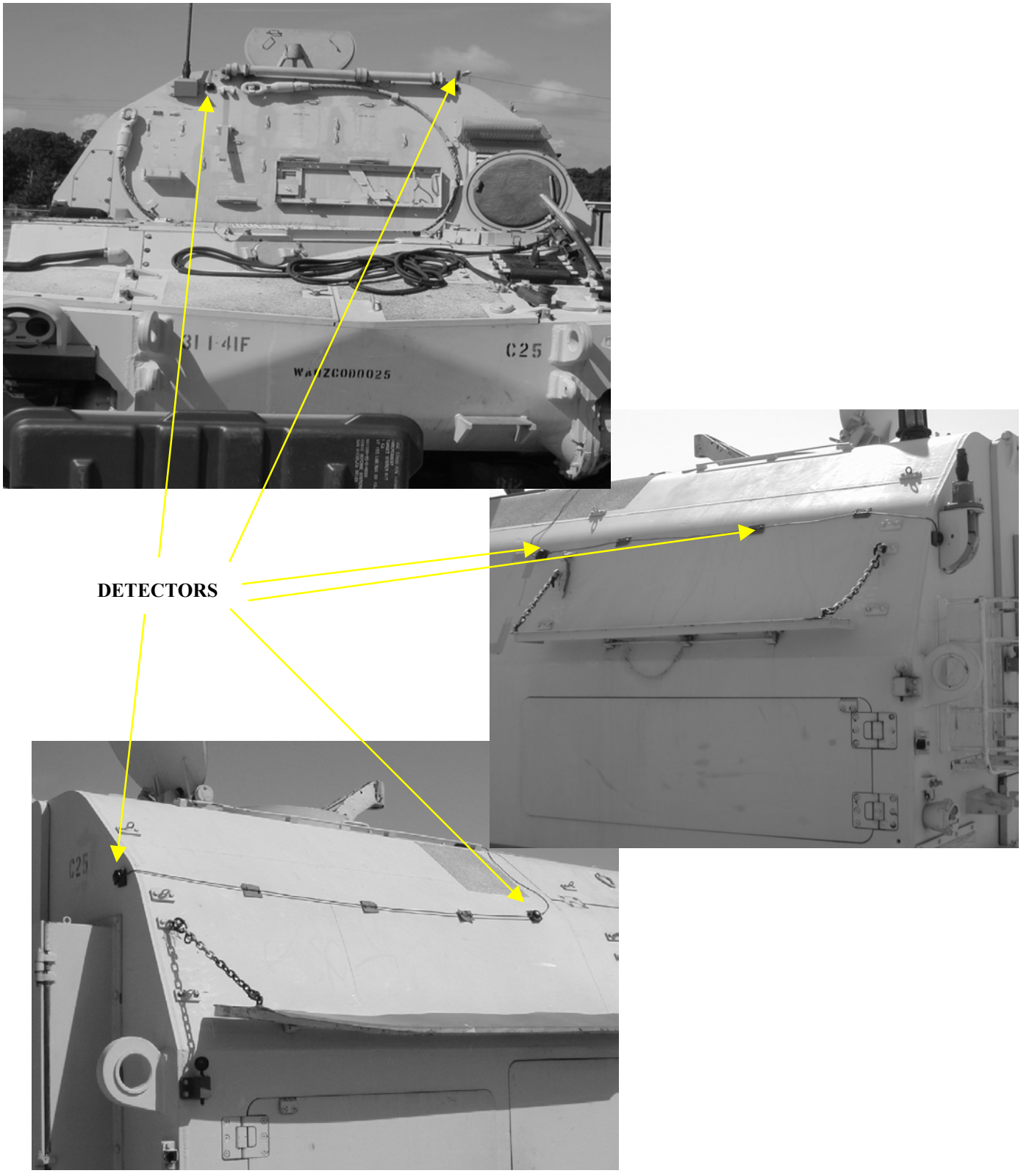
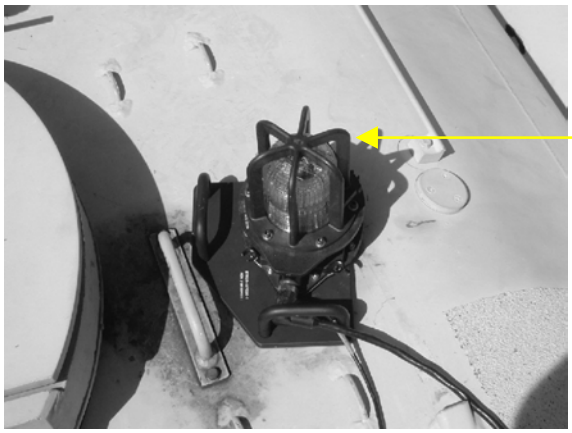
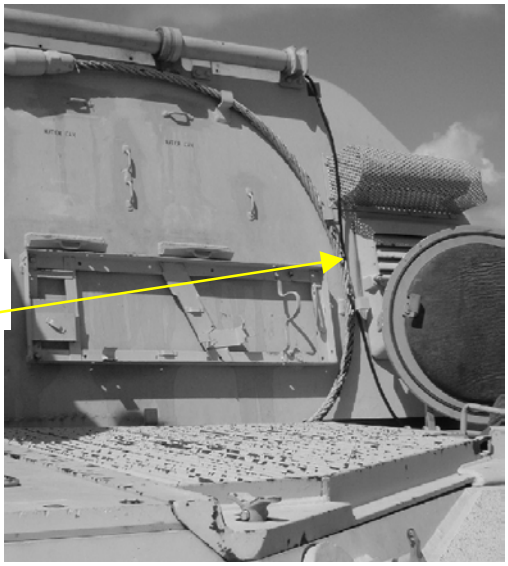


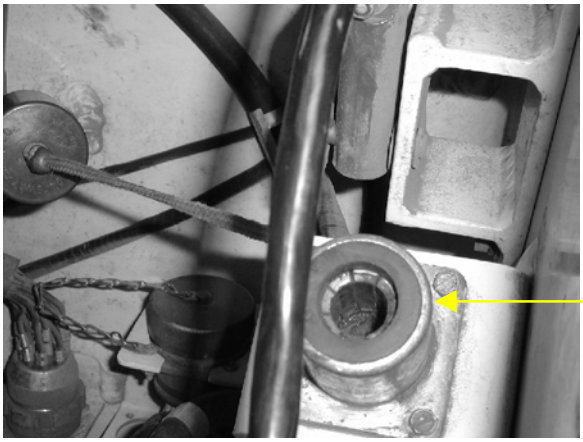
Figure 2-10. M992 Ammo Carrier MILES Installation (Sheet 1 of 2).



KSI

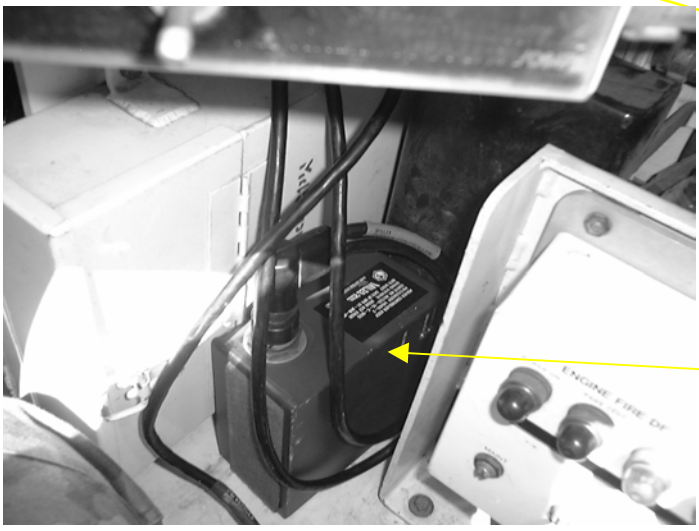
SYSTEM CABLE





SLAVE CONNECTION

CONTROL UNIT



POWER CONTROLLER UNIT

Figure 2-10. M992 Ammo Carrier MILES Installation (Sheet 2 of 2).

f. Attach the adapter to the top of the vehicle to the left of the commander's hatch, as illustrated in Figure 2-10, and ensure the KSI and adapter are securely mounted.

2.3.2.5.3 Control Unit (CU).

a. Remove the CU from the transit case and inspect for damage.

b. Inspect connector for dirt and/or damage.

c. Replace and report damaged equipment, as required.

d. Apply primer and fastener tape to the bottom of the CU, if needed. (Refer to paragraph 2.3.1.1 for fastener tape application.)

e. Apply primer and fastener tape to the right-side wall behind the driver's seat.

f. Mount the CU to the wall and ensure it is firmly seated.

2.3.2.5.4 Power Controller.

a. Remove the Power Controller from the transit case and inspect for damage.

b. Inspect connector for dirt and/or damage.

c. Replace and report damaged equipment, as required.

d. Apply primer and two (2) strips of fastener tape to the bottom of the Power Controller, if needed. (Refer to paragraph 2.3.1.1 for fastener tape application.)

e. Apply primer and fastener tape, if needed, to an area behind and to the left of the driver's seat.

f. Mount the Power Controller to the fastener tape and ensure that it is firmly seated.

2.3.2.5.5 System Cable.

NOTE

Route the cables and connect them to the individual units. Secure the cables safely out of the way using fastener tape tie-wraps at intervals.

Letter/number designators are shown in parenthesis. For example: (P3) or (J1). The designators have been added to clarify connector identifications. Each System Cable segment is labeled with its unique designator.

Cable segments are labeled with "P" (plug) and "J" (jack) designators as shown in the following example: "P1/J2," where P1 indicates that the connector of that cable segment is plug #1, and J2 indicates the routing destination, jack #2, of the equipment/cable to which the cable segment is being routed. The installation instructions of this manual identify the equipment/cable to which each cable segment is to be routed.

a. Remove the system cable from the transit case. Inspect the entire length of the cable, making sure there are no bare wires exposed, and the cable has not been damaged in any way.

b. Inspect connectors for dirt and/or damage.

c. Replace and report damaged equipment, as required.

d. Route segment (P5) to the vehicle power slave receptacle, and connect (P5) to the slave receptacle connector

e. Route segment (P1-violet sleeve) through lower part of driver's door to the Power Controller, and connect (P1) to (J1) of the Power Controller

f. Route segment (P2-red sleeve) to the CU, and connect (P2) to (J1) of the CU.

g. Route segment (P3-green sleeve) through the upper part of the commander's door to the KSI, and connect (P3) to (J1) of the KSI.

h. .Route segment (P4-gray sleeve) to the Detector Array, and connect (P4) to (J1) of the Detector Array.

i. Secure all cables out of the way with fastener tape or fastener tape tie-wraps.

i. Connect (P5) to the slave receptacle connector.

2.3.2.6 M88A1 Recovery Vehicle. (See Figure 2-11) See Figure 1-2 for Independent Target System (ITS) components.

2.3.2.6.1 Detector Array.

WARNING

Never touch the vehicle exhaust equipment when installing or removing MILES 2000 equipment. The exhaust can be very hot and cause severe burns.

CAUTION

Do not let MILES 2000 cables touch the vehicle exhaust or heating equipment. Heat can cause damage to cables and/or malfunction of the equipment.

ITS vehicle configurations are varied, so there is no specific way to install the Detector Array on a vehicle. When installing the Detector Array, follow the guidelines below:

a. Remove Detector Array from the transit case, and inspect cable segments and detectors for damage.

b. Wipe all detectors clean and inspect connector for dirt and/or damage.

c. Replace and report damaged equipment, as required.

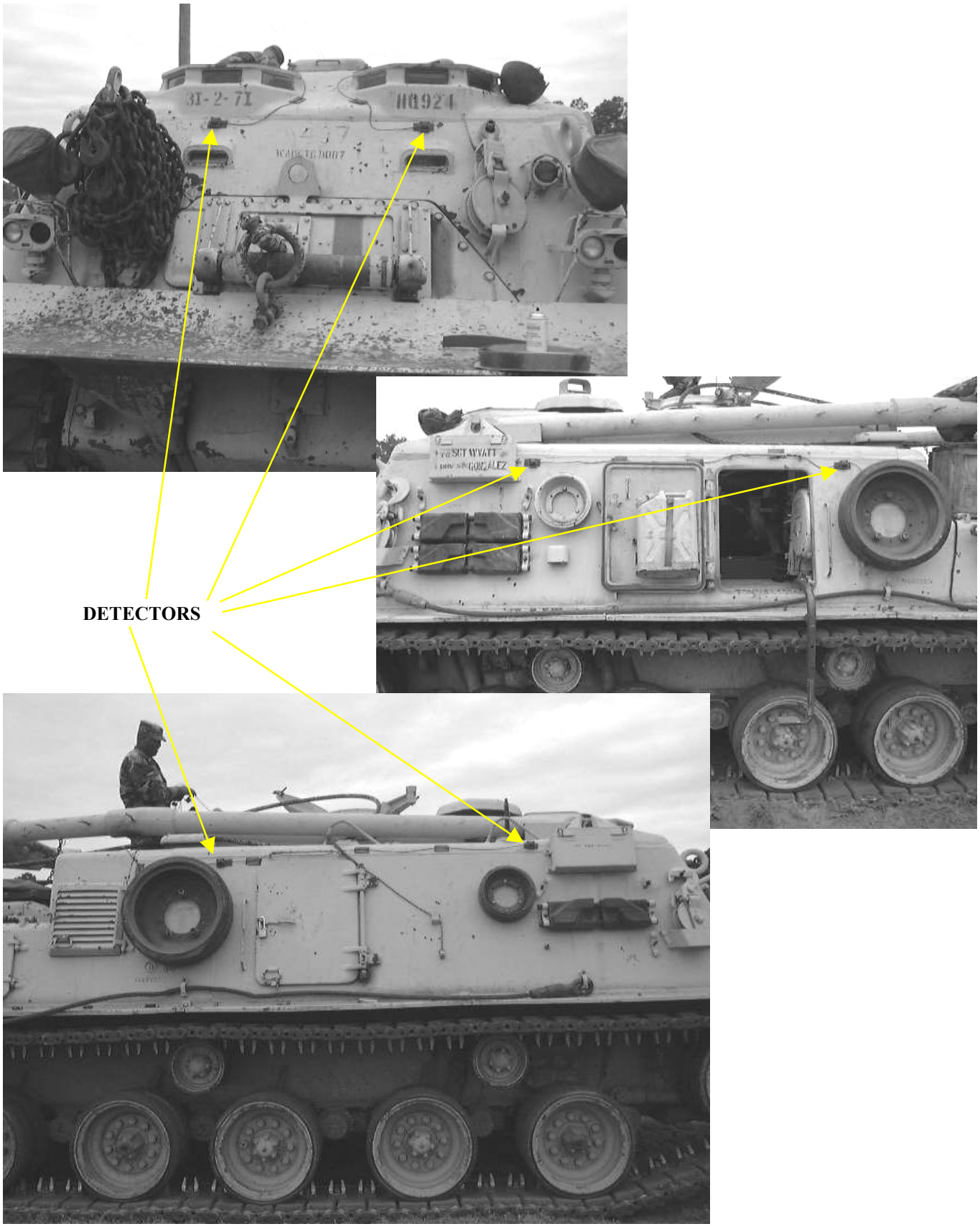


Figure 2-11. M88A1 Recovery Vehicle (Sheet 1 of 3)

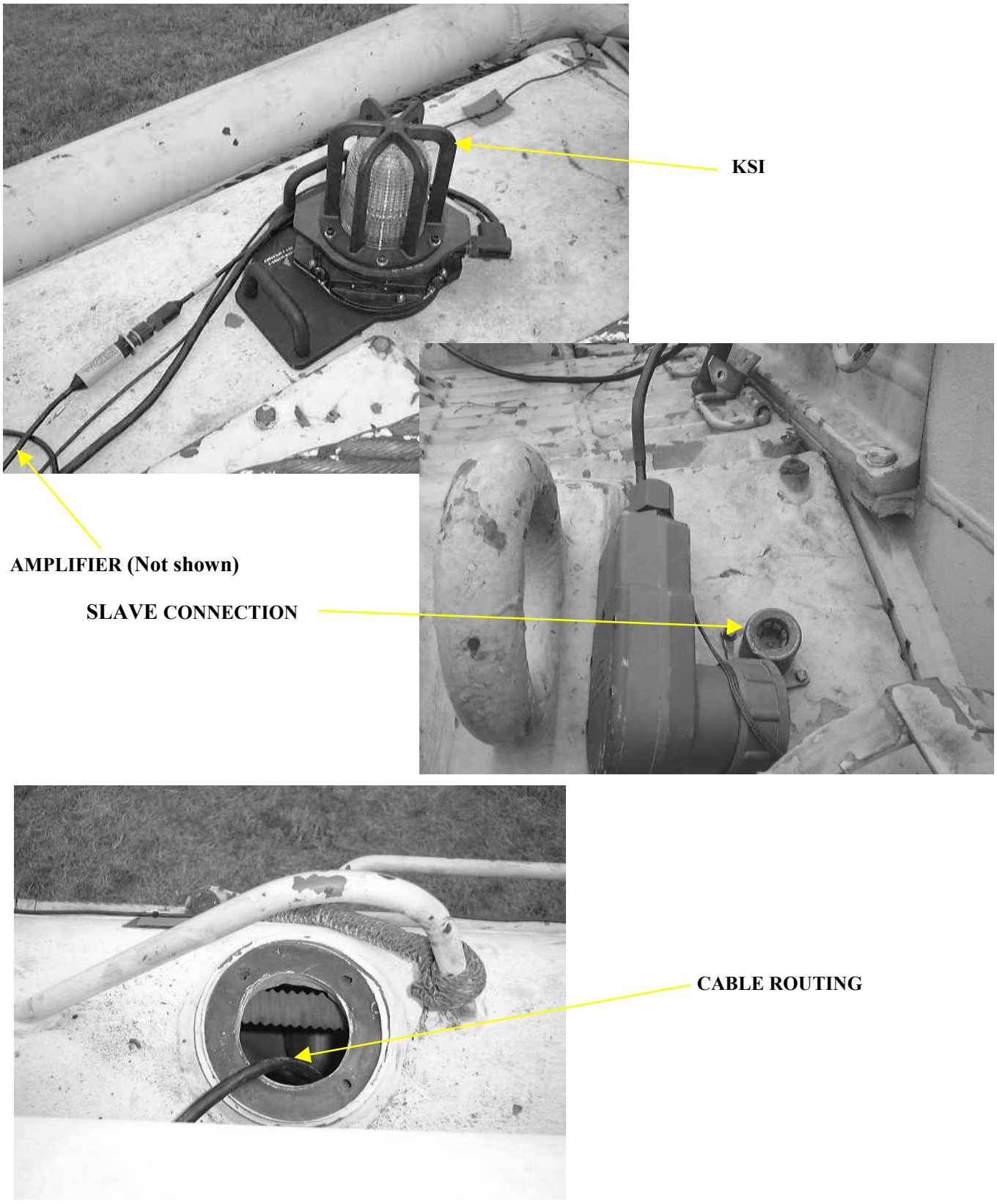
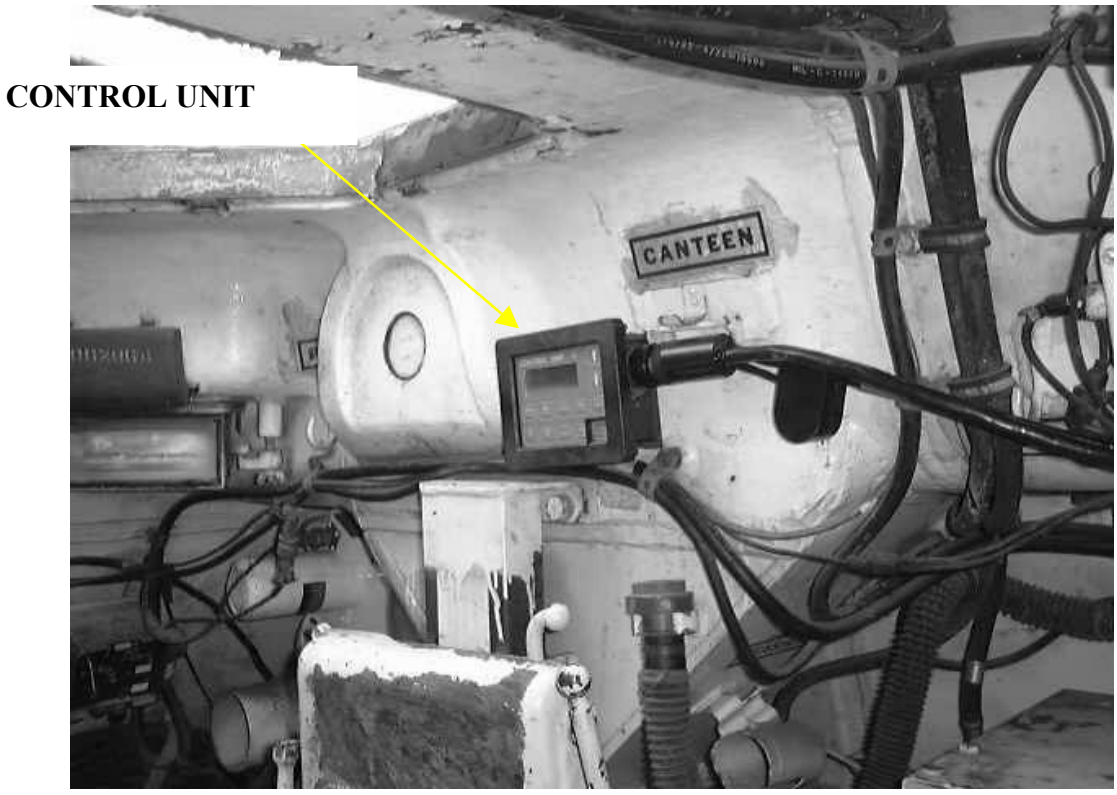


Figure 2-11. M88A1 Recovery Vehicle (Sheet 2 of 3)



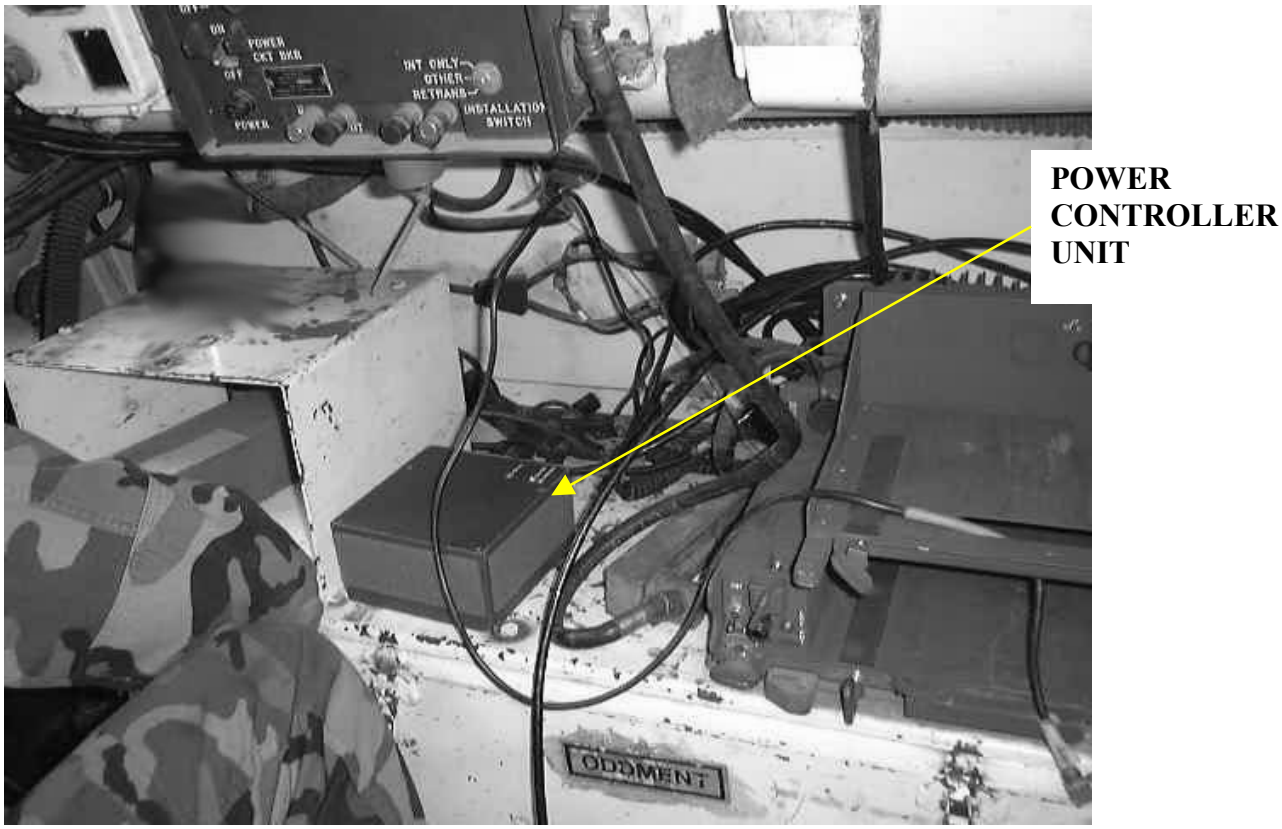


Figure 2-11. M88A1 Recovery Vehicle (Sheet 3 of 3)

d. When routing array segments, whenever possible, there should be detectors installed on the right and left sides as well as on the front and rear. However, this is an ideal layout that should only be used if placement can be accomplished without interfering with normal vehicle operations or presenting a safety hazard. In some cases, cabling may not be long enough to put detectors on all four sides.

e. Secure all array segments with fastener tape at frequent intervals. Extra cable between detectors should be rolled and secured to the vehicle.

2.3.2.6.2 Kill Status Indicator (KSI). See Figure 1-2 for KSI mounting adapters/plates.

a. Remove the KSI and adapter plate from the transit case, and inspect the KSI for damage.

b. Inspect strobe assembly of the KSI for cracks. Inspect connector for dirt and/or damage.

c. Replace and report damaged equipment, as required.

d. Apply primer and fastener tape to the bottom of the adapter plate and to the bottom of the KSI, if needed. (Refer to paragraph 2.3.1.1 for fastener tape application.)

e. Apply primer and fastener tape to the top of the vehicle as shown in Figure 2-11.

NOTE

For the following step, make sure the KSI and the adapter plate are lined up as described before placing them together, as the fastener tape will make it difficult to separate the units to realign them.

f. Attach the adapter to the top of the vehicle as shown in Figure 2-11 and ensure the KSI and adapter are securely mounted.

2.3.2.6.3 Control Unit (CU).

a. Remove the CU from the transit case and inspect for damage.

b. Inspect connector for dirt and/or damage.

c. Replace and report damaged equipment, as required.

d. Apply primer and fastener tape to the bottom of the CU, if needed. (Refer to paragraph 2.3.1.1 for fastener tape application.)

e. Apply primer and fastener tape to the area shown in Figure 2-11.

f. Mount the CU to the right shelf and ensure it is firmly seated.

2.3.2.6.4 Power Controller.

a. Remove the Power Controller from the transit case and inspect for damage.

b. Inspect connector for dirt and/or damage.

c. Replace and report damaged equipment, as required.

d. Apply primer and two (2) strips of fastener tape to the bottom of the Power Controller, if needed. (Refer to paragraph 2.3.1.1 for fastener tape application.)

e. Apply primer and fastener tape to the area depicted in Figure 2-11.

f. Mount the Power Controller as shown and ensure it is firmly seated.

2.3.2.6.5 System Cable.

NOTE

Route the cables and connect them to the individual units. Secure the cables safely out of the way using fastener tape tie-wraps at intervals.

Letter/number designators are shown in parenthesis. For example: (P3) or (J1). The designators have been added to clarify connector identifications. Each system cable segment is labeled with its unique designator.

Cable segments are labeled with "P" (plug) and "J" (jack) designators as shown in the following example: "P1/J2," where P1 indicates that the connector of that cable segment is plug #1, and J2 indicates the routing destination, jack #2, of the equipment/cable to which the cable segment is being routed. The installation instructions of this manual identify the equipment/cable to which each cable segment is to be routed.

Inside/outside cable access is through the antenna mount.

a. Remove the system cable from the transit case. Inspect the entire length of the cable, making sure there are no bare wires exposed, and the cable has not been damaged in any way.

b. Inspect connectors for dirt and/or damage.

c. Replace and report damaged equipment, as required.

d. Route segment (P5) to the vehicle power slave receptacle, and connect (P5) to the slave receptacle connector

e. Route segment (P1-violet sleeve) through lower part of driver's door to the Power Controller, and connect (P1) to (J1) of the Power Controller

f. Route segment (P2-red sleeve) to the CU, and connect (P2) to (J1) of the CU.

g. Route segment (P3-green sleeve) through the upper part of the commander's door to the KSI, and connect (P3) to (J1) of the KSI.

h. Route segment (P4-gray sleeve) to the Detector Array, and connect (P4) to (J1) of the Detector Array.

i. Secure all cables out of the way with fastener tape or fastener tape tie-wraps.

j. Connect (P5) to the slave receptacle connector.

2.3.2.7 M728 CEV. (See Figure 2-12.) See Figure 1-2 for Independent Target System (ITS) components.

2.3.2.7.1 Detector Array.

WARNING

Never touch the vehicle exhaust equipment when installing or removing MILES 2000 equipment. The exhaust can be very hot and cause severe burns.

CAUTION

Do not let MILES 2000 cables touch the vehicle exhaust or heating equipment. Heat can cause damage to cables and/or malfunction of the equipment.

ITS vehicle configurations are varied, so there is no specific way to install the Detector Array on a vehicle. When installing the Detector Array, follow the guidelines below:

a. Remove Detector Array from the transit case, and inspect cable segments and detectors for damage that would prevent normal operation.

b. Wipe all detectors clean and inspect connector for dirt and/or damage.

c. Replace and report damaged equipment, as required.

d. When routing array segments, whenever possible, there should be detectors installed on the right and left sides as well as on the front and rear. However, this is an ideal layout that should only be used if placement can be accomplished without interfering with normal vehicle operations or presenting a safety hazard. In some cases, the cabling may not be long enough to put detectors on all four sides.

e. Secure all array segments with fastener tape at frequent intervals. Extra cable between detectors should be rolled and secured to the vehicle.

2.3.2.7.2 Kill Status Indicator (KSI). See Figure 1-2 for KSI mounting adapter/plates.

a. Remove the KSI and the adapter mounting plate from the transit case, and inspect the KSI for damage.

b. Inspect strobe assembly of the KSI for cracks. Inspect connector for dirt and/or damage.

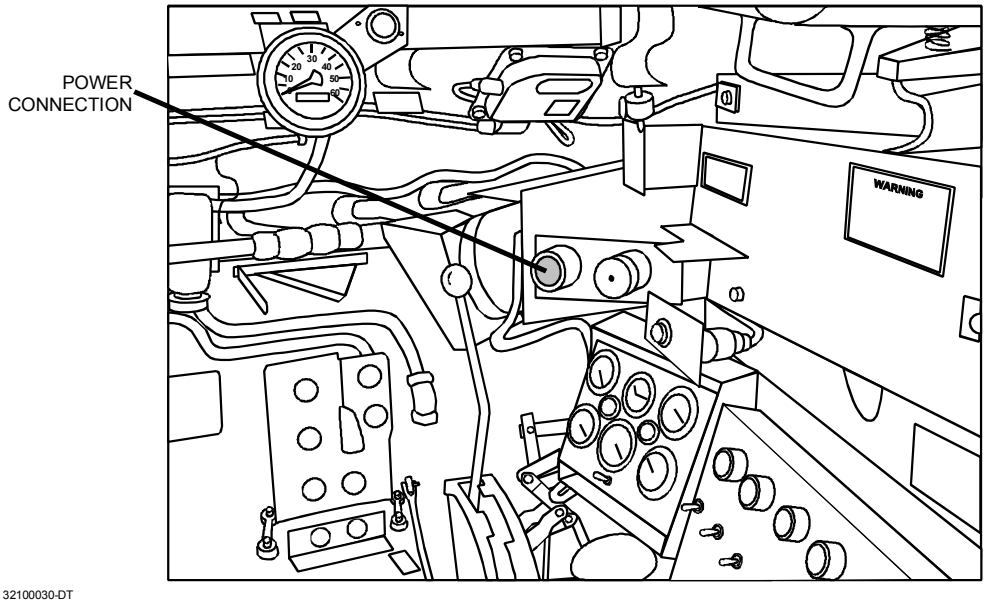
c. Replace and report damaged equipment, as required.

d. Apply two large strips of pile fastener tape to the top of the vehicle behind the hatch. (Refer to paragraph 2.3.1.1 for fastener tape application.)

e. Apply two (2) large strips of hook fastener tape to the bottom of the KSI adapter mounting plate, if needed.

f. Attach the KSI adapter mounting plate to the top of the vehicle behind the hatch.

g. Apply two large strips of pile fastener tape to the bottom of the KSI (ensuring the center bolt is not obstructed), and two (2) large strips of hook fastener tape to the top of the adapter mounting plate.



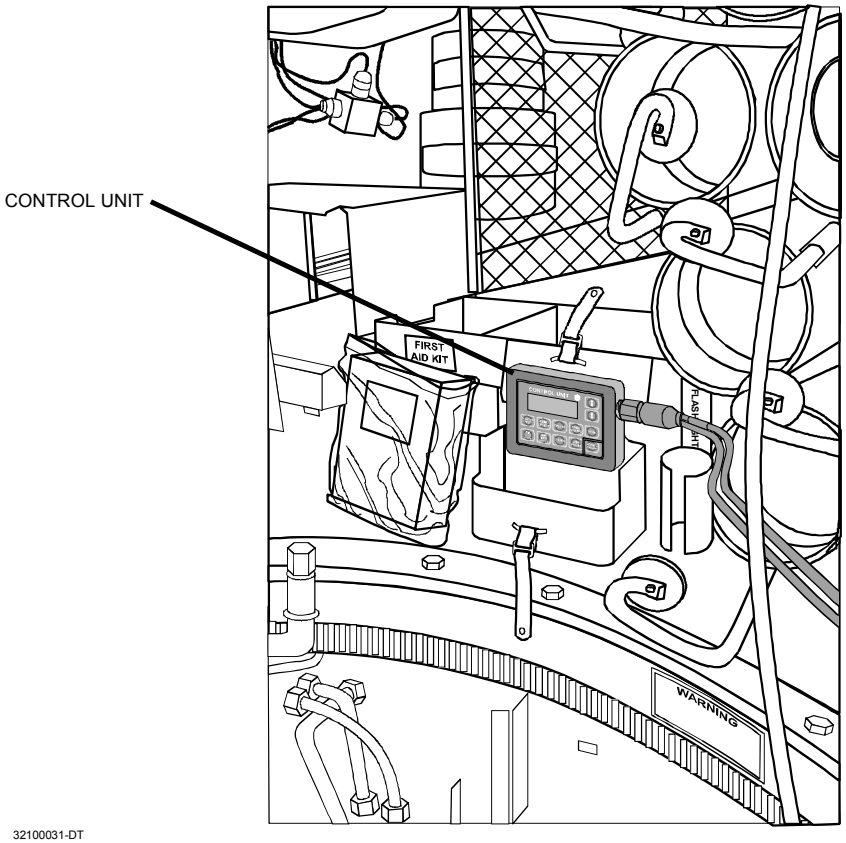
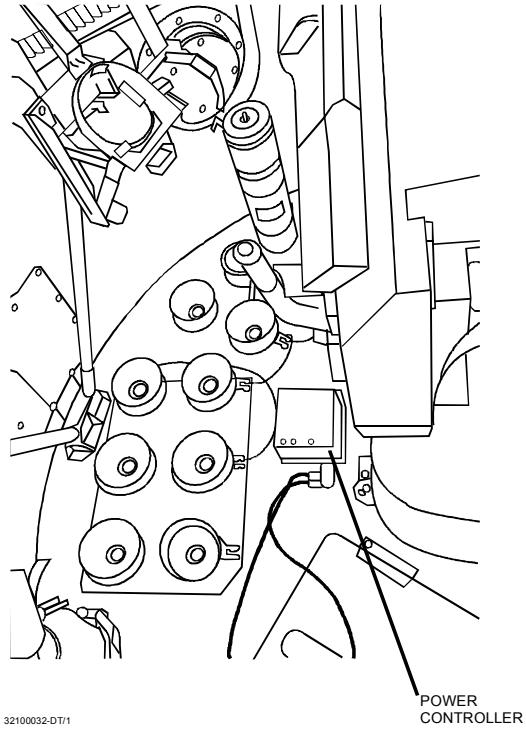
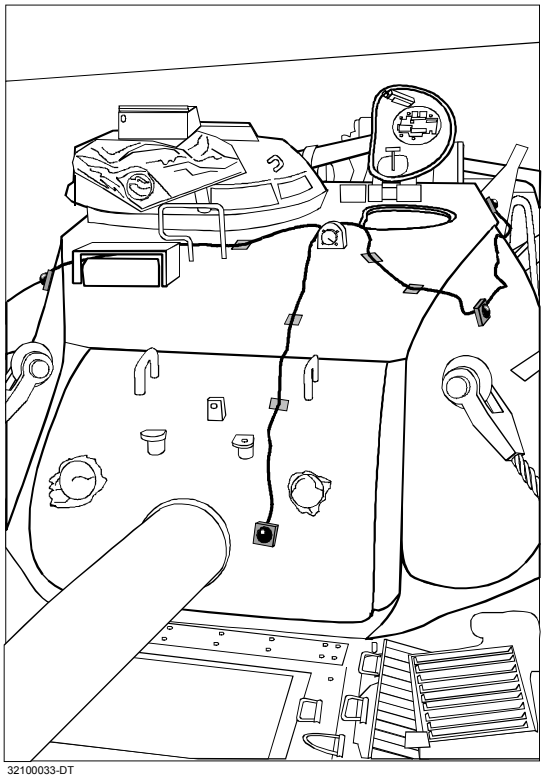
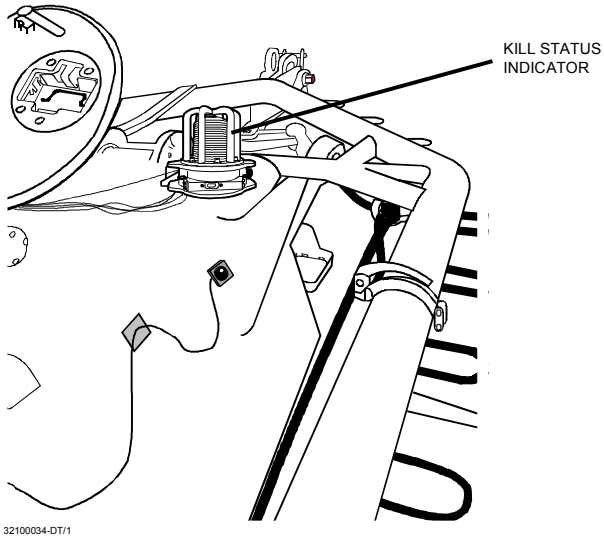


Figure 2-12. M728 CEV MILES Installation (Sheet 1 of 2).







NOTE

Place Amplifier near KSI.

Figure 2-12. M728 CEV MILES Installation (Sheet 2 of 2)

NOTE

For the following step, make sure that the KSI and the mast assembly are lined up as described before placing them together, as the fastener tape will make it difficult to separate the units to realign them.

h. After matching the center bolt with the mounting plate hole, place the KSI securely on the mounting plate. Ensure that the KSI is securely mounted.

2.3.2.7.3 Control Unit (CU).

a. Remove the CU from the transit case and inspect for damage.

b. Inspect connector for dirt and/or damage.

c. Replace and report damaged equipment, as required.

d. Apply primer and fastener tape to the bottom of the CU, if needed. (Refer to paragraph 2.3.1.1 for fastener tape application.)

e. Apply primer and fastener tape to the binocular tray, inside the vehicle.

f. Mount the CU to the binocular tray, and ensure that it is firmly seated.

2.3.2.7.4 Power Controller.

a. Remove the Power Controller from the transit case and inspect for damage.

b. Inspect connector for dirt and/or damage.

c. Replace and report damaged equipment, as required.

d. Apply primer and two (2) strips of fastener tape to the bottom of the Power Controller, if needed. (Refer to paragraph 2.3.1.1 for fastener tape application.)

e. Apply primer and fastener tape to the floor, inside the vehicle.

f. Mount the Power Controller to the floor, and ensure it is firmly seated.

2.3.2.7.5 System Cable.

NOTE

Route the cables and connect them to the individual units. Secure the cables safely out of the way using fastener tape tie-wraps at intervals.

Letter/number designators are shown in parenthesis. For example: (P3) or (J1). The designators have been added to clarify connector identifications. Each system cable segment is labeled with its unique designator.

Cable segments are labeled with “P” (plug) and “J” (jack) designators as shown in the following example: “P1/J2,” where P1 indicates that the

connector of that cable segment is plug #1, and J2 indicates the routing destination, jack #2, of the equipment/cable to which the cable segment is being routed. The installation instructions of this manual identify the equipment/cable to which each cable segment is to be routed.

NOTE

Inside/outside cable access is through the rear antenna mount on top of the turret.

a. Remove the system cable from the transit case. Inspect the entire length of the cable, making sure there are no bare wires exposed, and the cable has not been damaged in any way.

b. Inspect connectors for dirt and/or damage.

c. Replace and report damaged equipment, as required.

d. Route segment (P5) to the vehicle power slave receptacle, and connect (P5) to the slave receptacle connector

e. Route segment (P1-violet sleeve) through lower part of driver's door to the Power Controller, and connect (P1) to (J1) of the Power Controller

f. Route segment (P2-red sleeve) to the CU, and connect (P2) to (J1) of the CU.

g. Route segment (P3-green sleeve) through the upper part of the commander's door to the KSI, and connect (P3) to (J1) of the KSI.

h. Route segment (P4-gray sleeve) to the Detector Array, and connect (P4) to (J1) of the Detector Array.

i. Secure all cables out of the way with fastener tape or fastener tape tie-wraps.

j. Connect (P5) to the slave receptacle connector.

2.3.2.8 MW24C Loader. (See Figure 2-13.) See Figure 1-2 for Independent Target System (ITS) components.

2.3.2.8.1 Detector Array.

WARNING

Never touch the vehicle exhaust equipment when installing or removing MILES 2000 equipment. The exhaust can be very hot and cause severe burns.

CAUTION

Do not let MILES 2000 cables touch the vehicle exhaust or heating equipment. Heat can cause damage to cables and/or malfunction of the equipment.

ITS vehicle configurations are varied, so there is no specific way to install the Detector Array on a vehicle. When installing the Detector Array, follow the guidelines below:

a. Remove Detector Array from the transit case, and inspect cable segments and detectors for damage that would prevent normal operation.

b. Wipe all detectors clean and inspect connector for dirt and/or damage.

c. Replace and report damaged equipment, as required.

d. When routing array segments, whenever possible, there should be detectors installed on the right and left sides as well as on the front and rear. However, this is an ideal layout that should be used if placement can be accomplished without interfering with normal vehicle operations or presenting a safety hazard. In some cases, the cabling may not be long enough to put detectors on all four sides.

e. Secure all array segments with fastener tape at frequent intervals. Extra cable between detectors should be rolled and secured to the vehicle.

2.3.2.8.2 Kill Status Indicator (KSI). See Figure 1-2 for KSI mounting adapters/plates.

a. Remove the KSI and adapter from the transit case, and inspect the KSI for damage.

b. Inspect strobe assembly of the KSI for cracks. Inspect connector for dirt and/or damage.

c. Replace and report damaged equipment, as required.

d. Apply primer and fastener tape to the bottom of the adapter, and to the bottom of the KSI, if needed. (Refer to paragraph 2.3.1.1 for fastener tape application.)

e. Apply primer and fastener tape to the cab top of the vehicle.

NOTE

For the following step, make sure the KSI and the mast assembly are lined up as described before placing them together, as the fastener tape will make it difficult to separate the units to realign them.

f. Attach the adapter to the cab top of the vehicle, and ensure the KSI and adapter are securely mounted.

2.3.2.8.3 Control Unit (CU).

a. Remove the control unit from the transit case and inspect for damage.

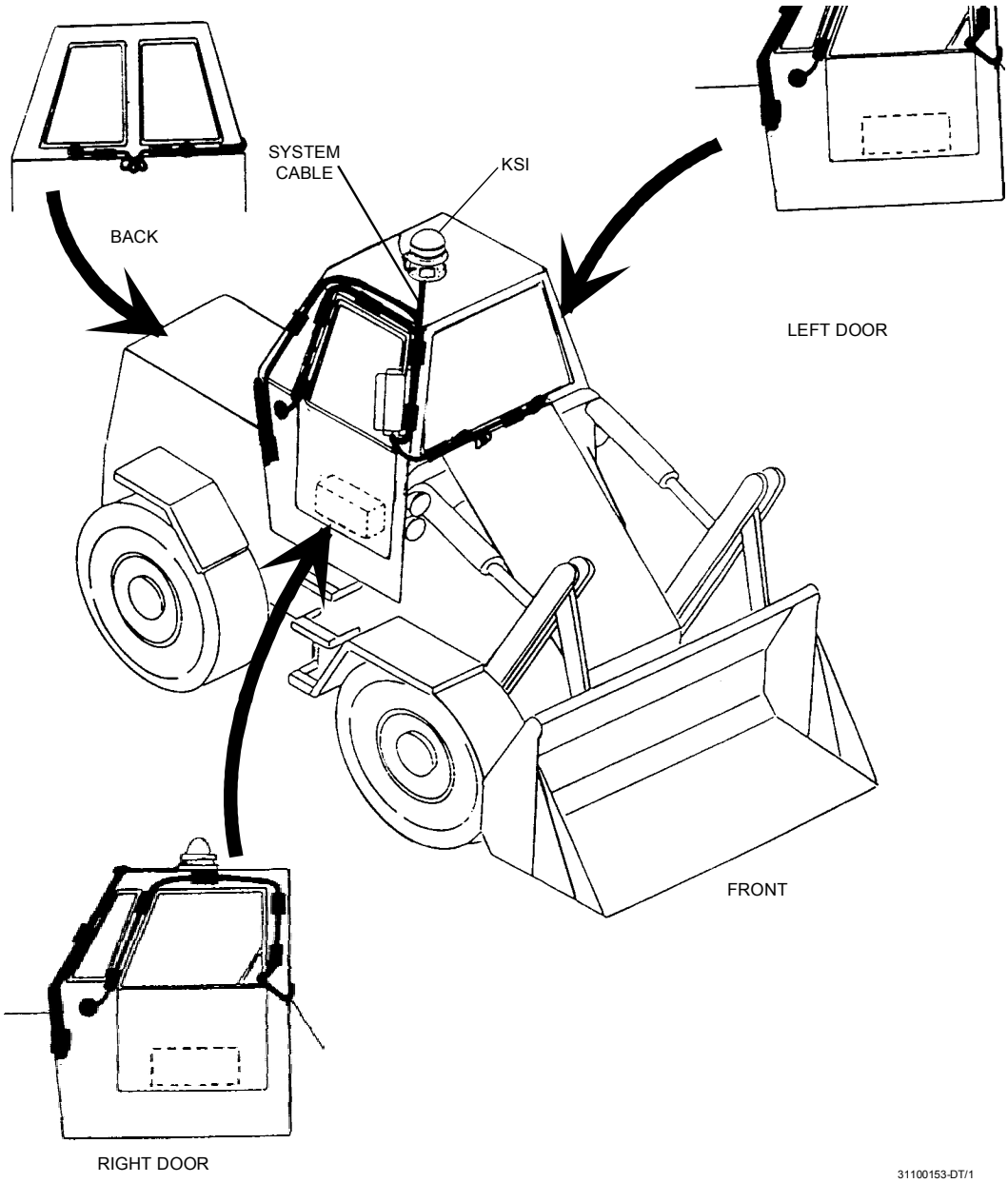
b. Inspect connector for dirt and/or damage.

c. Replace and report damaged equipment, as required.

d. Apply primer and fastener tape to the bottom of the CU, if needed. (Refer to paragraph 2.3.1.1 for fastener tape application.)

e. Apply primer and fastener tape to the right side shelf inside the vehicle.

f. Mount the CU to the right side shelf, and ensure it is firmly seated.



NOTE

Place Amplifier near KSI.

Figure 2-13. MW24C Loader MILES Installation.

2.3.2.8.4 Power Controller.

a. Remove the Power Controller from the transit case and inspect for damage.

b. Inspect connector for dirt and/or damage.

c. Replace and report damaged equipment, as required.

d. Apply primer and two (2) strips of fastener tape on the bottom of the Power Controller, if needed. (Refer to paragraph 2.3.1.1 for fastener tape application.)

e. Apply primer and fastener tape to an area on the floor, where the Power Controller will be out of the way.

f. Mount the Power Controller to the floor, and ensure it is firmly seated.

2.3.2.8.5 System Cable.

NOTE

Route the cables and connect them to the individual units. Secure the cables safely out of the way using fastener tape tie-wraps at intervals.

Letter/number designators are shown in parenthesis. For example: (P3) or (J1). The designators have been added to clarify connector identifications. Each system cable segment is labeled with its unique designator.

Cable segments are labeled with "P" (plug) and "J" (jack) designators as shown in the following example: "P1/J2," where P1 indicates that the connector of that cable segment is plug #1, and J2 indicates the routing destination, jack #2, of the equipment/cable to which the cable segment is being routed. The installation instructions of this manual identify the equipment/cable to which each cable segment is to be routed.

NOTE

Inside/outside cable access is through the vent window.

a. Remove the system cable from the transit case. Inspect the entire length of the cable, making sure there are no bare wires exposed, and the cable has not been damaged in any way.

b. Inspect connectors for dirt and/or damage.

c. Replace and report damaged equipment, as required.

d. Route segment (P5) to the vehicle power slave receptacle, and connect (P5) to the slave receptacle connector

e. Route segment (P1-violet sleeve) through lower part of driver's door to the Power Controller, and connect (P1) to (J1) of the Power Controller

f. Route segment (P2-red sleeve) to the CU, and connect (P2) to (J1) of the CU.

g. Route segment (P3-green sleeve) through the upper part of the commander's door to the KSI, and connect (P3) to (J1) of the KSI.

h. .Route segment (P4-gray sleeve) to the Detector Array, and connect (P4) to (J1) of the Detector Array.

i. Secure all cables out of the way with fastener tape or fastener tape tie-wraps.

j. Connect (P5) to the slave receptacle connector.

2.3.2.9 M1009 CUCV. (See Figure 2-14.) See Figure 1-2 for Independent Target System (ITS) components.

2.3.2.9.1 Detector Array Installation.

WARNING

Never touch the vehicle exhaust equipment when installing or removing MILES 2000 equipment. The exhaust can be very hot and cause severe burns.

CAUTION

Do not let MILES 2000 cables touch the vehicle exhaust or heating equipment. Heat can cause damage to cables and/or malfunction of the equipment.

ITS vehicle configurations are varied, so there is no specific way to install the Detector Array on a vehicle. When installing the Detector Array, follow the guidelines below:

a. Remove Detector Array from the transit case, and inspect cable segments and detectors for damage that would prevent normal operation.

b. Wipe all detectors clean and inspect connector for dirt and/or damage.

c. Replace and report damaged equipment, as required.

d. When routing array segments, whenever possible, there should be detectors installed on the right and left sides as well as on the front and rear. However, this is an ideal layout that should only be used if placement can be accomplished without interfering with normal vehicle operations or presenting a safety hazard. In some cases, the cabling may not be long enough to put detectors on all four sides.

e. Secure all array segments with fastener tape at frequent intervals. Extra cable between detectors should be rolled and secured to the vehicle.

2.3.2.9.2 Kill Status Indicator (KSI). See Figure 1-2 for KSI mounting adapters/plates.

a. Remove the KSI and adapter from the transit case, and inspect the KSI for damage.

b. Inspect connector for dirt and/or damage.

c. Replace and report damaged equipment, as required.

d. Apply primer and fastener tape to the bottom of the adapter, and to the bottom of the KSI, if needed.

(Refer to paragraph 2.3.1.1 for fastener tape application.)

e. Apply primer and fastener tape to the cab top of the vehicle.

NOTE

For the following step, make sure the KSI and the mast assembly are lined up as described before placing them together, as the fastener tape will make it difficult to separate the units to realign them.

f. Attach the adapter to the cab top of the vehicle, and ensure the KSI and adapter are securely mounted.

2.3.2.9.3 Control Unit (CU).

a. Remove the CU from the transit case and inspect for damage.

b. Inspect the connector for dirt, and bent or damaged pins.

c. Replace and report damaged equipment, as required.

d. Apply primer and fastener tape to the bottom of the CU, if needed. (Refer to paragraph 2.3.1.1 for fastener tape application.)

e. Apply primer and fastener tape to an area on the floor where the CU will not be in the way.

f. Mount the CU to the dash above the thermostat control, and ensure it is firmly seated.

2.3.2.9.4 Power Controller.

a. Remove the Power Controller from the transit case and inspect for damage.

b. Inspect connector for dirt and/or damage.

c. Replace and report damaged equipment, as required.

d. Apply primer and two (2) strips of fastener tape to the bottom of the Power Controller, if needed. (Refer to paragraph 2.3.1.1 for fastener tape application.)

e. Apply primer and fastener tape to an area on the floor where the Power Controller will not be in the way.

f. Mount the Power Controller to the floor underneath the dash on the commander's side, and ensure it is firmly seated.

2.3.2.9.5 System Cable.

NOTE

Route the cables and connect them to the individual units. Secure the cables safely out of the way using fastener tape tie-wraps at intervals.

Letter/number designators are shown in parenthesis. For example: (P3) or (J1). The designators have been added to clarify connector identifications. Each system cable segment is labeled with its unique designator.

Cable segments are labeled with "P" (plug) and "J" (jack) designators as shown in the following example: "P1/J2," where P1 indicates that the connector of that cable segment is plug #1, and J2 indicates the routing

destination, jack #2, of the equipment/cable to which the cable segment is being routed. The installation instructions of this manual identify the equipment/cable to which each cable segment is to be routed.

d. Route segment (P3-green sleeve) to the KSI, and connect (P3) to (J1) of the KSI.

e. Route segment (P4-gray sleeve) to the Detector Array, and connect (P4) to (J1) of the Detector Array.

f. Route segment (P2-red sleeve) to the CU, and connect (P2) to (J1) of the CU.

g. Route segment (P1-violet sleeve) to the Power Controller, and connect (P1) to (J1) of the Power Controller.

h. Route segment (P5) to the vehicle power slave receptacle for vehicle power, and connect (P5) to the slave receptacle connector.

i. Secure all cables out of the way with fastener tape or fastener tape tie-wraps.

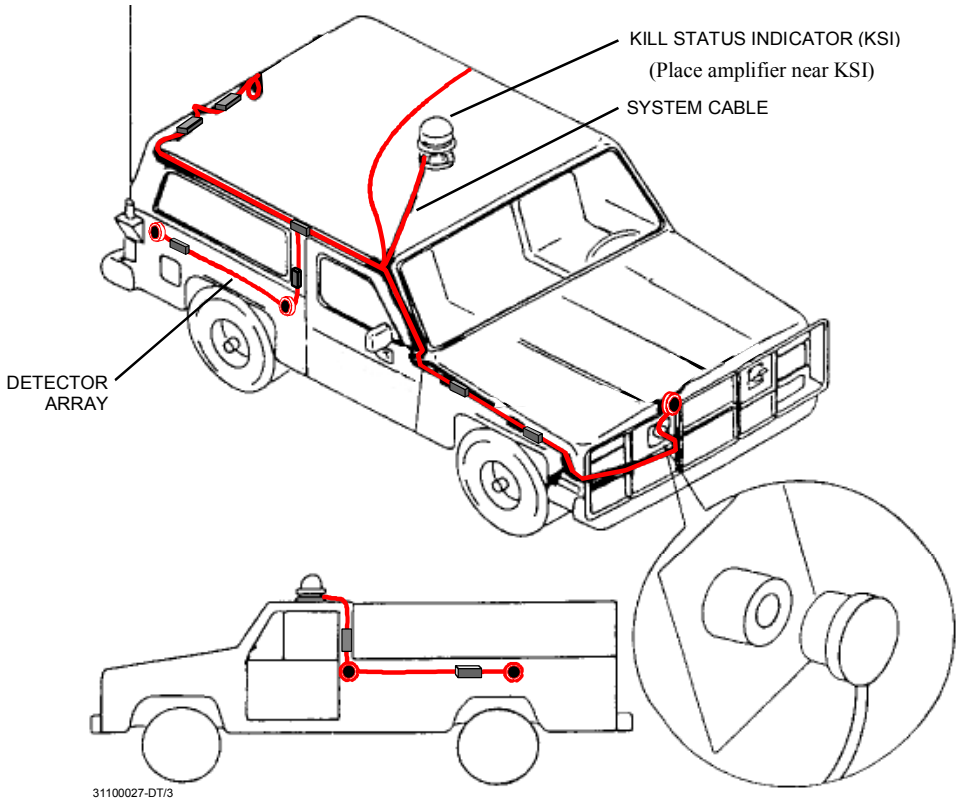


Figure 2-14. M1009 CUCV MILES Installation.